## **ABSTRACT**

Target is to provide an organic compound material having a bipolar character.

A quinoxaline derivative represented by a general formula (1) is provided. In the formula, R<sup>1</sup> - R<sup>12</sup> each independently represents a hydrogen atom, a halogen atom, a lower alkyl group, an alkoxy group, an acyl group, a nitro group, a cyano group, an amino group, a dialkylamino group, a diarylamino group, a vinyl group, an aryl group, or a heterocyclic residue group. R<sup>9</sup> and R<sup>10</sup>, R<sup>10</sup> and R<sup>11</sup>, and R<sup>11</sup> and R<sup>12</sup> are each independent or respectively mutually bonded to form an aromatic ring. Ar<sup>1</sup> - Ar<sup>4</sup> each independently represents an aryl group or a heterocyclic residue group. Ar<sup>1</sup>, Ar<sup>2</sup>, Ar<sup>3</sup> and Ar<sup>4</sup> are each independent or Ar<sup>1</sup> and Ar<sup>2</sup>, and Ar<sup>3</sup> and Ar<sup>4</sup> are respectively mutually bonded directly, or Ar<sup>1</sup> and Ar<sup>3</sup>, and Ar<sup>3</sup> and Ar<sup>4</sup> are bonded via oxygen (O), sulfur (S) or a carbonyl group.

$$Ar^{1}$$
 $R^{2}$ 
 $R^{3}$ 
 $R^{6}$ 
 $R^{7}$ 
 $R^{7}$ 
 $R^{8}$ 
 $R^{12}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$